



DEPARTMENT OF TRANSPORTATION

Pipeline and Hazardous Materials Safety Administration

[Docket No. PHMSA-2022-0051; Notice No. 2022-08]

Hazardous Materials: Notification of Compliance Procedures and Proposed Termination of Certain Jet Perforating Guns Approvals

AGENCY: Pipeline and Hazardous Materials Safety Administration (PHMSA), Department of Transportation (DOT).

ACTION: Notice.

SUMMARY: PHMSA is issuing this notice to serve process and inform all persons who currently hold explosive approvals for certain jet perforating guns of the process necessary for maintaining, modifying, upgrading/up-classing, or terminating these approvals.

FOR FURTHER INFORMATION CONTACT: Ms. Harpreet Singh, Chief, Energetic Materials Branch, Sciences and Engineering Division, Office of Hazardous Materials Safety, (202) 366-4535, PHMSA, 1200 New Jersey Ave, SE., Washington, DC 20590.

SUPPLEMENTARY INFORMATION:

A. Background

In November 2020, PHMSA issued the HM-219C¹ final rule, which amended the Hazardous Materials Regulations in response to 24 petitions for rulemaking submitted by the regulated community between February 2015 and March 2018. As part of one of those petitions, PHMSA incorporated by reference a new Jet Perforating Gun (JPG) standard developed by the Association of Energy Service Companies (AESC) and the Institute of Makers of Explosives (IME) titled “*Guide to Obtaining DOT Approval of Jet Perforating Guns using AESC/IME Perforating Gun Specifications, Version 02, Effective Date: September 1, 2017*” (AESC/IME

¹ 85 FR 75680 (November 25, 2020)

JPG 2017 Standard)². The final rule had an effective date of December 28, 2020, and a delayed compliance date of November 26, 2021.

In the HM-219C rulemaking, PHMSA noted the major differences between the AESC/IME JPG 2017 standard and the previous 2008 standard, such as:

- The 1.4D (UN0494) JPG classifications have been removed.
- The 1.1D (UN0124) JPG classifications are issued with a note that the approved 1.1D perforating gun system can be transported as 1.4D in accordance with Special Provision (SP) 114 (49 CFR § 172.102). This SP allows for JPGs classified as 1.1D explosives to be reclassified as 1.4D explosives for transportation if certain conditions are met.
- The 1.1D (NA0124) and 1.4D (NA0494) “with detonator” JPG classifications have been removed. Such JPG systems are now subject to testing in accordance with 49 CFR § 173.56(b) prior to approval.
- The JPG Kodiak™ system has been added, but SP 114 does not apply to this JPG.

Since publication of the HM-219C final rule in November 2020, PHMSA has identified approximately 773 current explosive (EX) approvals that are assigned to one of the four identification numbers—UN0124, UN0494, NA0124, and NA0494—impacted by the AESC/IME JPG 2017 standard.

Today’s notice is primarily intended to serve as a notice of proposed termination in accordance with 49 CFR §§ 105.35(a)(3) and 107.713(b)(1) and (c), and to reach all EX approval holders who have not yet submitted a request to maintain, modify, upgrade/up-class, or terminate their current approval.

B. Processing Existing Approvals by UN/NA Number

PHMSA is providing the following options to current holders of an EX approval affected by this requirement. Affected EX approval-holders may take the appropriate actions as explained

² See [https://www.ime.org/uploads/public/PerfGunClassification\(2017.09.01\).pdf](https://www.ime.org/uploads/public/PerfGunClassification(2017.09.01).pdf)

in the table below.

Table 1 – Options to comply with the AESC/IME JPG 2017 Standard

JPG Classification	Adjustment	Comments and Suggested Action/Options
1.1D (UN0124) except Kodiak TM type JPG	None, unless a note authorizing 1.4D classification under SP 114 is desired (SP 114 applies whether noted on the EX letter or not).	1. Submit request to modify EX approval to add note allowing the JPG to be shipped as 1.4D under SP 114. (49 CFR §172.102). 2. Email modification request to explo@dot.gov or submit to the explosives portal https://portal.phmsa.dot.gov/PHMSAPortal2 .
1.1D (UN0124) only Kodiak TM type JPG	Modify the EX by requesting the note be added that SP 114 does not apply to a Kodiak JPG.	1. Submit a request to modify an EX approval to add note not permitting 1.4D under SP 114. (49 CFR § 172.102) for the Kodiak version of the JPG. 2. Email modification request to explo@dot.gov or submit to the explosives portal https://portal.phmsa.dot.gov/PHMSAPortal2
1.4D (UN0494) (holder also has 1.1D (UN0124) approval for the same JPG)	Surrender EX and request termination, or PHMSA will terminate.	1. No longer needed since 1.1D can be shipped as 1.4D under SP 114. 2. Email termination request to explo@dot.gov or submit to the explosives portal https://portal.phmsa.dot.gov/PHMSAPortal2 .
1.4D (UN0494) (holder does not have 1.1D classification (UN0124) approval for the same JPG)	Modify EX by requesting upgrade/up-class to 1.1D (UN0124), or PHMSA will terminate.	1. No longer needed since 1.1D can be shipped as 1.4D under Special Provision 114. (49 CFR 172.102). 2. Email modification request to explo@dot.gov or submit to the explosives portal https://portal.phmsa.dot.gov/PHMSAPortal2 .
1.1D with detonator (NA0124) (holder does not have an explosives lab report in accordance with 49 CFR 173.56(b))	Surrender EX and request termination or PHMSA will terminate or request to upgrade/up-class to UN0124.	1. NA0124 is no longer authorized without an explosives lab report in accordance with 173.56(b). 2. Email termination or upgrade/up-class request to explo@dot.gov or submit to the explosives portal https://portal.phmsa.dot.gov/PHMSAPortal2
1.1D with detonator (NA0124) (holder has an explosives lab report in accordance with 49 CFR 173.56(b)) and has not shared the lab report with PHMSA	Modification request to retain the 1.1D (NA0124) classification, or PHMSA will terminate.	1. Submit modification request and an explosives lab report to PHMSA. 2. Email modification request to explo@dot.gov or submit to the explosives portal https://portal.phmsa.dot.gov/PHMSAPortal2
1.4D with detonator (NA0494) (holder does not have an explosives lab report in accordance with 49 CFR 173.56(b))	Surrender EX and request termination or PHMSA will terminate or request to upgrade/up-class to UN0124.	1. NA0494 is no longer authorized without an explosives lab report in accordance with 173.56(b). 2. Email termination or upgrade/up-class request to explo@dot.gov or submit to the explosives portal https://portal.phmsa.dot.gov/PHMSAPortal2 .
1.4D with detonator (NA0494) (holder has an explosives lab report in accordance with 49 CFR 173.56(b)) and has not shared the lab report	Modification request to retain the 1.4D (NA0494) classification, or PHMSA will terminate.	1. Submit modification request and an explosives lab report to PHMSA. 2. Email modification request to explo@dot.gov or submit to the explosives portal https://portal.phmsa.dot.gov/PHMSAPortal2 .

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The approximately 773 EX approvals are held by over 100 separate companies. Because of the AESC/IME JPG 2017 Standard, existing approvals for the four affected UN/NA ID numbers—UN0124, UN0494, NA0124, and NA0494—must be modified in accordance with 49 CFR § 107.713(a)(1) to reflect whether EX approval holders have met the requirements of the standard. UN0124 non-Kodiak™ approvals do not require modification as SP 114 applies to them even if it is not specifically listed in the notes section of the approval (49 CFR § 172.102). UN0124 Kodiak™ approvals do require a modification of the approval adding the note that SP 114 does not apply to the Kodiak™ JPG system.

EX approval holders have until **[INSERT DATE 30 DAYS AFTER DATE OF PUBLICATION IN THE *FEDERAL REGISTER*]**, to provide a written response to PHMSA either to request that PHMSA maintain, modify, upgrade/upclass, or terminate their approval(s) or to otherwise show cause as to why their approval(s) should not be terminated, in accordance with 49 CFR § 107.713(c)(1). Approvals for which PHMSA does not receive a request by **[INSERT DATE 30 DAYS AFTER DATE OF PUBLICATION IN THE *FEDERAL REGISTER*]**, are subject to the following:

Table 2 – Proposed Termination Action

JPG Classification	PHMSA Action	Basis/Comments
UN0124, 1.1D- non-Kodiak JPG system.	None.	SP 114 applies whether noted on the EX letter or not.
UN0124, 1.1D Kodiak JPG system.	PHMSA will revise and add a note that SP 114 does not apply to the Kodiak system.	Add a note stating that SP 114 does not apply.
UN0494, 1.4D, for which the holder has an approval for the same JPG device as UN0124, 1.1D.	Termination in accordance with this Federal Register notice.	Approval not needed in accordance with SP 114 as it applies.
UN0494, 1.4D for which the holder does not have an approval for the same JPG device as UN0124, 1.1D.	Termination in accordance with this Federal Register notice.	Holder failed to request an up-class to UN0124, 1.1D as required by this notice.
UN0494, 1.4D for which the holder has an explosives lab report recommending UN0494 and the lab report is on file with PHMSA.	None.	Holder submitted the explosives lab report required by 49 CFR 173.67 in accordance 173.56(b) and received an explosives classification approval.
NA0124, 1.1D JPG with	Termination in accordance with	Holder failed to submit an explosives

detonator for which the holder does not have an explosives lab report recommending NA0124.	this Federal Register notice.	lab report required by 49 CFR 173.67 in accordance 173.56(b).
NA0124, 1.1D JPG with detonator for which the holder has an explosives lab report recommending NA0124 but has not submitted the lab report to PHMSA.	Termination in accordance with this Federal Register notice.	Holder failed to submit the explosives lab report required by 49 CFR 173.67 in accordance with 173.56(b).
NA0494, 1.4D JPG with detonator for which the holder does not have an explosives lab report recommending NA0494.	Termination in accordance with this Federal Register notice.	Holder failed to submit the explosives lab report required by 49 CFR 173.67 in accordance with 173.56(b).
NA0494, 1.4D JPG with detonator for which the holder has an explosives lab report recommending NA0494 but has not submitted the lab report to PHMSA.	Termination in accordance with this Federal Register notice.	Holder failed to submit the explosives lab report required by 49 CFR 173.67 in accordance with 173.56(b).

Requests may be submitted to PHMSA via email at explo@dot.gov or the PHMSA EX Portal at <https://portal.phmsa.dot.gov/PHMSAPortal2>.

The names of EX approval holders who have not yet submitted a request to maintain, modify, upgrade/up-class, or terminate their current approval(s) are provided in Table 3. This table accurately reflects the population of holders as of July 1, 2022.

Table 3 – Approval Holders

EX Number	Company	UN/NA Number
EX2012090377	Accurate Logging & Perforating, Inc.	UN0494
EX2012090378	Accurate Logging & Perforating, Inc.	UN0494
EX2012090379	Accurate Logging & Perforating, Inc.	UN0494
EX2012090380	Accurate Logging & Perforating, Inc.	UN0494
EX2012090381	Accurate Logging & Perforating, Inc.	UN0494
EX2012090382	Accurate Logging & Perforating, Inc.	UN0494
EX2012090391	Accurate Logging & Perforating, Inc.	NA0494
EX2012090392	Accurate Logging & Perforating, Inc.	NA0494
EX2012090393	Accurate Logging & Perforating, Inc.	NA0494
EX1996110208	Allegheny Wireline Service c/o Owen Compliance Ser	NA0124
EX1996110209	Allegheny Wireline Service c/o Owen Compliance Ser	NA0494
EX2011110994	Allied Wireline Services	NA0494
EX2011110995	Allied Wireline Services	UN0494
EX2011110996	Allied Wireline Services	NA0494
EX2011110997	Allied Wireline Services	UN0124
EX2011111036	Allied Wireline Services	UN0494
EX2011111037	Allied Wireline Services	NA0494

EX2011111038	Allied Wireline Services	UN0494
EX2011111039	Allied Wireline Services	NA0494
EX2011111040	Allied Wireline Services	UN0494
EX2015090686	Anderson Perforating Service, LLC	UN0494
EX2015090687	Anderson Perforating Service, LLC	UN0494
EX2015090688	Anderson Perforating Service, LLC	UN0494
EX2015090689	Anderson Perforating Service, LLC	UN0494
EX2015090690	Anderson Perforating Service, LLC	UN0494
EX2015090691	Anderson Perforating Service, LLC	UN0494
EX2015090692	Anderson Perforating Service, LLC	UN0494
EX2010071138	ANLINE, Inc.	UN0494
EX2010071139	ANLINE, Inc.	UN0494
EX2010071140	ANLINE, Inc.	UN0494
EX2009080176	Apollo Perforators Inc.	NA0494
EX2009080177	Apollo Perforators Inc.	UN0494
EX2009080178	Apollo Perforators Inc.	NA0494
EX2017040169	AR Wireline LLC	UN0494
EX2017040170	AR Wireline LLC	UN0494
EX2017040171	AR Wireline LLC	UN0494
EX2017040172	AR Wireline LLC	UN0494
EX2017040173	AR Wireline LLC	UN0494
EX2017040174	AR Wireline LLC	UN0494
EX2010100093	Ark-La-Tex Wireline Services	UN0494
EX2010100094	Ark-La-Tex Wireline Services	UN0494
EX2010100095	Ark-La-Tex Wireline Services	UN0494
EX2010100099	Ark-La-Tex Wireline Services	UN0494
EX2009030177	Austin Explosives Company	NA0494
EX2009035458	Austin Explosives Company	UN0124
EX2009035459	Austin Explosives Company	UN0494
EX2009035464	Austin Explosives Company	UN0124
EX2009035465	Austin Explosives Company	UN0494
EX2009035466	Austin Explosives Company	UN0494
EX2009035468	Austin Explosives Company	UN0494
EX2009035469	Austin Explosives Company	NA0124
EX2009035473	Austin Explosives Company	NA0124
EX2009035474	Austin Explosives Company	NA0494
EX2009035476	Austin Explosives Company	NA0494
EX2009035477	Austin Explosives Company	NA0124
EX2009035478	Austin Explosives Company	NA0494
EX2009035479	Austin Explosives Company	NA0124
EX2009035542	Austin Explosives Company	UN0494
EX2009035543	Austin Explosives Company	UN0124
EX2009035544	Austin Explosives Company	UN0494
EX2009035546	Austin Explosives Company	UN0494
EX2009035547	Austin Explosives Company	UN0124
EX2009035548	Austin Explosives Company	UN0494
EX2009035549	Austin Explosives Company	UN0124
EX2009035550	Austin Explosives Company	UN0494

EX2009035557	Austin Explosives Company	NA0124
EX2009035558	Austin Explosives Company	NA0494
EX2009035559	Austin Explosives Company	NA0124
EX2009035560	Austin Explosives Company	NA0494
EX2009035561	Austin Explosives Company	NA0124
EX2009035562	Austin Explosives Company	NA0494
EX2009035563	Austin Explosives Company	NA0124
EX2009035564	Austin Explosives Company	NA0494
EX2009060085	Austin Explosives Company	NA0494
EX2009060330	Austin Explosives Company	UN0124
EX2009060334	Austin Explosives Company	UN0124
EX2009060335	Austin Explosives Company	UN0494
EX2009060336	Austin Explosives Company	UN0124
EX2009060337	Austin Explosives Company	UN0494
EX2009060338	Austin Explosives Company	UN0124
EX2009060339	Austin Explosives Company	UN0494
EX2009060340	Austin Explosives Company	NA0124
EX2009060341	Austin Explosives Company	NA0494
EX2009060342	Austin Explosives Company	NA0124
EX2009060343	Austin Explosives Company	NA0494
EX2009060344	Austin Explosives Company	NA0124
EX2009060345	Austin Explosives Company	NA0494
EX2009060346	Austin Explosives Company	NA0124
EX2009060347	Austin Explosives Company	NA0494
EX2010030285	Austin Explosives Company	UN0124
EX2013080350	AXIS American X-Ray & Inspection Services, Inc.	UN0494
EX2013080352	AXIS American X-Ray & Inspection Services, Inc.	UN0494
EX2013080353	AXIS American X-Ray & Inspection Services, Inc.	UN0494
EX1993090157	Baker Hughes INTEQ(Owen Compliance Services, Inc.)	UN0124
EX2009060302	Blohowiak Wireline Co., Inc.	NA0494
EX2009060303	Blohowiak Wireline Co., Inc.	NA0494
EX2009060304	Blohowiak Wireline Co., Inc.	NA0494
EX2009060308	Blohowiak Wireline Co., Inc.	UN0494
EX2009060309	Blohowiak Wireline Co., Inc.	UN0494
EX2009060310	Blohowiak Wireline Co., Inc.	UN0494
EX2009060311	Blohowiak Wireline Co., Inc.	UN0494
EX2009060312	Blohowiak Wireline Co., Inc.	UN0494
EX2013110494	Blue Jet Inc.	NA0494
EX2013110496	Blue Jet Inc.	UN0494
EX2013110497	Blue Jet Inc.	NA0494
EX2013110498	Blue Jet Inc.	UN0124
EX2013110499	Blue Jet Inc.	NA0494
EX2013110500	Blue Jet Inc.	UN0124
EX2013120526	Blue Jet Inc.	UN0494
EX2013120527	Blue Jet Inc.	UN0494
EX2016100206	Boots Smith Completion Services, LLC	UN0494
EX2016100214	Boots Smith Completion Services, LLC	UN0494

EX2016100215	Boots Smith Completion Services, LLC	UN0494
EX2011040402	Cajun Wireline	UN0124
EX2011040405	Cajun Wireline	UN0124
EX2011040409	Cajun Wireline	UN0124
EX2011040415	Cajun Wireline	UN0124
EX2011040424	Cajun Wireline	NA0124
EX2011040426	Cajun Wireline	UN0124
EX2011040655	Cajun Wireline	NA0494
EX2011040656	Cajun Wireline	NA0494
EX2011040665	Cajun Wireline	NA0494
EX2014060069	Cajun Wireline	UN0494
EX2014090976	Cajun Wireline	UN0494
EX2012111533	Capitan Corporation	UN0494
EX2012111536	Capitan Corporation	UN0494
EX2012111537	Capitan Corporation	UN0494
EX2016100355	Capitan Corporation	NA0494
EX2016100357	Capitan Corporation	NA0124
EX2014060695	Cased Hole Well Services, LLC	UN0124
EX2014060698	Cased Hole Well Services, LLC	UN0494
EX2014060699	Cased Hole Well Services, LLC	UN0494
EX2014060700	Cased Hole Well Services, LLC	UN0494
EX2014060701	Cased Hole Well Services, LLC	UN0494
EX2014060702	Cased Hole Well Services, LLC	UN0494
EX2014060703	Cased Hole Well Services, LLC	UN0494
EX2014060704	Cased Hole Well Services, LLC	UN0494
EX2016090936	CEEE LLC dba Integrity Wireline LLC	UN0494
EX2016090937	CEEE LLC dba Integrity Wireline LLC	UN0494
EX2016090938	CEEE LLC dba Integrity Wireline LLC	UN0494
EX2015121645	Clutch Energy Services, LLC	UN0124
EX2015121646	Clutch Energy Services, LLC	UN0494
EX2015121647	Clutch Energy Services, LLC	NA0124
EX2015121648	Clutch Energy Services, LLC	NA0494
EX2015121649	Clutch Energy Services, LLC	UN0124
EX2015121650	Clutch Energy Services, LLC	UN0494
EX2015121651	Clutch Energy Services, LLC	NA0124
EX2015121652	Clutch Energy Services, LLC	NA0494
EX2011040360	Cogco Inc.	NA0124
EX2009050187	Cutters Wireline Service, Inc.	NA0494
EX2009050188	Cutters Wireline Service, Inc.	NA0124
EX2009050191	Cutters Wireline Service, Inc.	NA0494
EX2009050192	Cutters Wireline Service, Inc.	NA0124
EX2009050195	Cutters Wireline Service, Inc.	NA0494
EX2009050196	Cutters Wireline Service, Inc.	NA0124
EX2009050196	Cutters Wireline Service, Inc.	NA0494
EX2009050199	Cutters Wireline Service, Inc.	NA0494
EX2009050203	Cutters Wireline Service, Inc.	NA0494
EX2009050204	Cutters Wireline Service, Inc.	NA0124
EX2009050207	Cutters Wireline Service, Inc.	NA0494

EX2009050208	Cutters Wireline Service, Inc.	NA0124
EX2011040357	D & S Wireline	UN0494
EX2011040365	D & S Wireline	NA0494
EX2011040371	D & S Wireline	UN0494
EX2011040398	D & S Wireline	UN0494
EX2011040399	D & S Wireline	UN0494
EX2011040400	D & S Wireline	NA0494
EX2011040401	D & S Wireline	UN0494
EX2011040403	D & S Wireline	UN0494
EX2011040406	D & S Wireline	NA0494
EX2011040411	D & S Wireline	NA0494
EX2011040414	D & S Wireline	UN0494
EX2011040416	D & S Wireline	NA0494
EX2011040417	D & S Wireline	NA0494
EX2012100821	Dialog Wireline Services, LLC.	UN0124
EX2009100047	E&P Wireline Services, LLC	UN0494
EX2009100049	E&P Wireline Services, LLC	UN0494
EX2015010747	Epic Wireline Services, Inc.	UN0494
EX2015010748	Epic Wireline Services, Inc.	UN0124
EX2015010749	Epic Wireline Services, Inc.	UN0494
EX2015010750	Epic Wireline Services, Inc.	UN0124
EX2015010751	Epic Wireline Services, Inc.	NA0124
EX2015010752	Epic Wireline Services, Inc.	NA0494
EX2015010753	Epic Wireline Services, Inc.	NA0494
EX2015010754	Epic Wireline Services, Inc.	NA0124
EX2015010755	Epic Wireline Services, Inc.	UN0494
EX2015010756	Epic Wireline Services, Inc.	UN0124
EX2012030723	Express Energy Services	UN0494
EX2012030724	Express Energy Services	UN0494
EX2012030725	Express Energy Services	UN0494
EX2012030726	Express Energy Services	UN0494
EX2012030727	Express Energy Services	UN0494
EX2012030728	Express Energy Services	UN0494
EX2014110180	Extreme Wireline Inc.	NA0494
EX2014110182	Extreme Wireline Inc.	NA0494
EX2014100455	FMC Technologies Surface Integrated Services, Inc.	UN0494
EX2014100463	FMC Technologies Surface Integrated Services, Inc.	NA0494
EX2014100467	FMC Technologies Surface Integrated Services, Inc.	UN0494
EX2014100469	FMC Technologies Surface Integrated Services, Inc.	NA0494
EX2012100799	Frontier Completion Services, LLC	UN0124
EX2012100800	Frontier Completion Services, LLC	NA0494
EX2012100801	Frontier Completion Services, LLC	UN0124
EX2012100802	Frontier Completion Services, LLC	NA0494
EX2012100803	Frontier Completion Services, LLC	UN0124
EX2012100804	Frontier Completion Services, LLC	NA0494
EX2012100805	Frontier Completion Services, LLC	UN0124
EX2012100806	Frontier Completion Services, LLC	NA0494
EX2012100807	Frontier Completion Services, LLC	UN0124

EX2012100808	Frontier Completion Services, LLC	NA0494
EX2012100809	Frontier Completion Services, LLC	UN0124
EX2012100810	Frontier Completion Services, LLC	NA0494
EX2012100811	Frontier Completion Services, LLC	UN0124
EX2016091098	FTS International Services LLC	UN0124
EX2015030446	FTS International Services, LLC	UN0494
EX2015030448	FTS International Services, LLC	UN0124
EX2015030450	FTS International Services, LLC	UN0494
EX2015030451	FTS International Services, LLC	UN0124
EX2015030452	FTS International Services, LLC	NA0494
EX2015030453	FTS International Services, LLC	UN0494
EX2015030454	FTS International Services, LLC	UN0494
EX2015030455	FTS International Services, LLC	UN0494
EX2015030456	FTS International Services, LLC	UN0494
EX2015030457	FTS International Services, LLC	NA0494
EX2015030458	FTS International Services, LLC	NA0494
EX2015030459	FTS International Services, LLC	UN0494
EX2013011200	GE Oil & Gas Logging Services, Inc.	UN0124
EX2013011201	GE Oil & Gas Logging Services, Inc.	UN0494
EX2013011202	GE Oil & Gas Logging Services, Inc.	UN0494
EX2013011203	GE Oil & Gas Logging Services, Inc.	UN0494
EX2013011204	GE Oil & Gas Logging Services, Inc.	UN0494
EX2013011205	GE Oil & Gas Logging Services, Inc.	UN0494
EX2013011206	GE Oil & Gas Logging Services, Inc.	UN0494
EX2013011207	GE Oil & Gas Logging Services, Inc.	UN0124
EX2013011208	GE Oil & Gas Logging Services, Inc.	UN0124
EX2013011209	GE Oil & Gas Logging Services, Inc.	UN0124
EX2013011210	GE Oil & Gas Logging Services, Inc.	UN0124
EX2013011212	GE Oil & Gas Logging Services, Inc.	UN0124
EX2013011214	GE Oil & Gas Logging Services, Inc.	NA0494
EX2013011215	GE Oil & Gas Logging Services, Inc.	NA0494
EX2013011216	GE Oil & Gas Logging Services, Inc.	NA0494
EX2013011217	GE Oil & Gas Logging Services, Inc.	NA0124
EX2013011218	GE Oil & Gas Logging Services, Inc.	NA0124
EX2013011219	GE Oil & Gas Logging Services, Inc.	NA0124
EX2013011220	GE Oil & Gas Logging Services, Inc.	UN0494
EX2013020491	GE Oil & Gas Logging Services, Inc.	UN0124
EX2015100254	GEODynamics, Inc.	NA0124
EX2015100270	GEODynamics, Inc.	NA0124
EX2015100745	GEODynamics, Inc.	NA0124
EX2015050129	GR Wireline LP	UN0494
EX2015050130	GR Wireline LP	NA0494
EX2015050131	GR Wireline LP	UN0124
EX2015050132	GR Wireline LP	UN0494
EX2015050133	GR Wireline LP	NA0494
EX2015050134	GR Wireline LP	NA0124
EX2015050135	GR Wireline LP	UN0494
EX2016030436	Halliburton Energy Services, Inc	UN0124

EX2009010158	Halliburton Energy Services, Inc.	UN0124
EX2009010162	Halliburton Energy Services, Inc.	UN0124
EX2009010163	Halliburton Energy Services, Inc.	UN0124
EX2009010164	Halliburton Energy Services, Inc.	UN0124
EX2009010166	Halliburton Energy Services, Inc.	UN0124
EX2009010193	Halliburton Energy Services, Inc.	UN0124
EX2009010195	Halliburton Energy Services, Inc.	UN0124
EX2009035019	Hearne Wireline Service	UN0494
EX2015110600	High Plains, Inc.	UN0494
EX2015110602	High Plains, Inc.	UN0494
EX2015110604	High Plains, Inc.	UN0494
EX2015111360	High Plains, Inc.	UN0494
EX1996110212	Hitwell Surveys, Inc. c/o Owen Compliance Services	NA0124
EX1996110213	Hitwell Surveys, Inc. c/o Owen Compliance Services	NA0494
EX2015070493	Hunter Wireline Services, LLC	UN0494
EX2015070495	Hunter Wireline Services, LLC	UN0494
EX2015070498	Hunter Wireline Services, LLC	NA0494
EX2015070499	Hunter Wireline Services, LLC	NA0494
EX2015070500	Hunter Wireline Services, LLC	NA0494
EX2015070501	Hunter Wireline Services, LLC	UN0494
EX2015070503	Hunter Wireline Services, LLC	UN0494
EX2015070505	Hunter Wireline Services, LLC	NA0494
EX2015070512	Hunter Wireline Services, LLC	NA0494
EX2015070514	Hunter Wireline Services, LLC	UN0494
EX2015070520	Hunter Wireline Services, LLC	UN0494
EX2015070521	Hunter Wireline Services, LLC	NA0494
EX2015070522	Hunter Wireline Services, LLC	UN0494
EX2009040043	Integrated Production Services, Inc.	UN0494
EX2009040044	Integrated Production Services, Inc.	NA0124
EX2009040045	Integrated Production Services, Inc.	UN0494
EX2009040047	Integrated Production Services, Inc.	NA0494
EX2009040086	Integrated Production Services, Inc.	UN0124
EX2009040087	Integrated Production Services, Inc.	UN0494
EX2009040089	Integrated Production Services, Inc.	UN0494
EX2009040091	Integrated Production Services, Inc.	NA0124
EX2009040092	Integrated Production Services, Inc.	UN0494
EX2009040093	Integrated Production Services, Inc.	NA0124
EX2009040094	Integrated Production Services, Inc.	UN0124
EX2009040095	Integrated Production Services, Inc.	NA0494
EX2009040096	Integrated Production Services, Inc.	UN0494
EX2009040097	Integrated Production Services, Inc.	NA0124
EX2009040098	Integrated Production Services, Inc.	NA0494
EX2009040099	Integrated Production Services, Inc.	UN0494
EX2009040100	Integrated Production Services, Inc.	UN0124
EX2009040101	Integrated Production Services, Inc.	NA0494
EX2009040102	Integrated Production Services, Inc.	UN0124
EX2009040103	Integrated Production Services, Inc.	NA0494
EX2010071124	J-W Wireline Company	NA0494

EX2010071125	J-W Wireline Company	NA0494
EX2010071126	J-W Wireline Company	NA0494
EX2010071127	J-W Wireline Company	UN0494
EX2010071128	J-W Wireline Company	UN0494
EX2010071129	J-W Wireline Company	UN0494
EX2010071130	J-W Wireline Company	UN0494
EX2010071131	J-W Wireline Company	UN0494
EX2010071132	J-W Wireline Company	UN0494
EX2010071133	J-W Wireline Company	UN0494
EX2009050655	K & N Perforators, Inc	UN0494
EX2010050454	K & N Perforators, Inc	NA0494
EX2010050455	K & N Perforators, Inc	NA0494
EX2010050456	K & N Perforators, Inc	NA0494
EX2010050457	K & N Perforators, Inc	NA0494
EX2010050458	K & N Perforators, Inc	NA0494
EX2010050459	K & N Perforators, Inc	NA0494
EX2010050460	K & N Perforators, Inc	UN0494
EX2014080601	Keane Frac ND, LLC	UN0124
EX2014080602	Keane Frac ND, LLC	NA0124
EX2014080603	Keane Frac ND, LLC	UN0494
EX2014080605	Keane Frac ND, LLC	NA0494
EX2014090516	Keane Frac ND, LLC	NA0124
EX2014080593	Keane Frac TX, LLC	UN0124
EX2014080596	Keane Frac TX, LLC	NA0124
EX2014080598	Keane Frac TX, LLC	UN0494
EX2014080599	Keane Frac TX, LLC	NA0494
EX2013110799	Keane Frac, LP	UN0494
EX2013110800	Keane Frac, LP	NA0124
EX2013110802	Keane Frac, LP	NA0494
EX2009035502	Key Electric Wireline Services, LLC	UN0124
EX2009035503	Key Electric Wireline Services, LLC	UN0124
EX2009035504	Key Electric Wireline Services, LLC	UN0124
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EX2009035520	Key Electric Wireline Services, LLC	UN0124

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EX2009035525	Key Electric Wireline Services, LLC	UN0124
EX2009050253	Lone Wolf Wireline, Inc.	NA0124
EX2009050254	Lone Wolf Wireline, Inc.	UN0494
EX2009050255	Lone Wolf Wireline, Inc.	UN0124
EX2009050256	Lone Wolf Wireline, Inc.	NA0494
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EX2009050258	Lone Wolf Wireline, Inc.	UN0494
EX2009050259	Lone Wolf Wireline, Inc.	UN0124
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EX2009050264	Lone Wolf Wireline, Inc.	NA0494
EX2009050275	Lone Wolf Wireline, Inc.	NA0494
EX2014120034	Magna Energy Services, LLC	UN0494
EX2014120035	Magna Energy Services, LLC	UN0494
EX2009050133	Mesa Wireline, LLC	UN0494
EX2009050134	Mesa Wireline, LLC	UN0124
EX2009050153	Mesa Wireline, LLC	UN0494
EX2009050156	Mesa Wireline, LLC	NA0124
EX2009050157	Mesa Wireline, LLC	UN0494
EX2009050158	Mesa Wireline, LLC	UN0124
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EX2013050447	Moncla E-line Services, Inc.	NA0494
EX2013050448	Moncla E-line Services, Inc.	NA0494
EX2013050449	Moncla E-line Services, Inc.	NA0494
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EX2013050476	Moncla E-line Services, Inc.	UN0494
EX2013050477	Moncla E-line Services, Inc.	UN0494
EX2013050479	Moncla E-line Services, Inc.	UN0494
EX2013050480	Moncla E-line Services, Inc.	UN0494
EX2013050481	Moncla E-line Services, Inc.	UN0494
EX2013050482	Moncla E-line Services, Inc.	UN0494
EX2009050029	Nabors Completion & Production Services Co.	NA0124
EX2009050038	Nabors Completion & Production Services Co.	UN0494
EX2009050040	Nabors Completion & Production Services Co.	NA0494
EX2009050041	Nabors Completion & Production Services Co.	NA0124
EX2009050042	Nabors Completion & Production Services Co.	UN0494
EX2009050043	Nabors Completion & Production Services Co.	UN0124
EX2009050044	Nabors Completion & Production Services Co.	NA0494
EX2009050045	Nabors Completion & Production Services Co.	NA0124
EX2009050046	Nabors Completion & Production Services Co.	UN0494
EX2009050047	Nabors Completion & Production Services Co.	UN0124
EX2009050050	Nabors Completion & Production Services Co.	UN0494

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EX2009050053	Nabors Completion & Production Services Co.	UN0124
EX2009050054	Nabors Completion & Production Services Co.	NA0494
EX2015010280	Nitro Downhole LLC	UN0494
EX2018122399	Norman Wireline Service, Inc.	UN0494
EX1996110217	Owen Oil Tools, Inc. c/o Owen Compliance Services	NA0494
EX2015070752	Patriot Well Solutions	NA0494
EX2015070753	Patriot Well Solutions	UN0494
EX2015070754	Patriot Well Solutions	UN0124
EX2015070755	Patriot Well Solutions	UN0494
EX2015070756	Patriot Well Solutions	NA0494
EX2015070757	Patriot Well Solutions	UN0494
EX2014110383	Peak Wireline Services Inc.	UN0494
EX2015010339	Peak Wireline Services Inc.	UN0494
EX2015010340	Peak Wireline Services Inc.	UN0494
EX2015010341	Peak Wireline Services Inc.	UN0494
EX2009050128	Perf-O-Log, Inc.	UN0494
EX2009050129	Perf-O-Log, Inc.	UN0494
EX2015010001	PerfX Wireline Services LLC	UN0494
EX2012120815	Petroleum Perforators, Inc.	UN0494
EX2012120816	Petroleum Perforators, Inc.	NA0494
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EX2013070135	Petroleum Perforators, Inc.	UN0494
EX2013070140	Petroleum Perforators, Inc.	NA0494
EX2009120009	Precision Wireline Services, LLC	UN0494
EX2009120014	Precision Wireline Services, LLC	UN0494
EX2013031301	Precision Wireline Services, LLC	UN0494
EX2013031303	Precision Wireline Services, LLC	UN0494
EX2013031284	Precision Wireline Services, LLC.	UN0494
EX2013031305	Precision Wireline Services, LLC.	UN0494
EX2013031306	Precision Wireline Services, LLC.	UN0494
EX2013031307	Precision Wireline Services, LLC.	UN0494

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EX2013110531	Priority Energy Services, LLC	UN0494
EX2015070491	Pro Oilfield Services, LLC	UN0494
EX2015070492	Pro Oilfield Services, LLC	UN0494
EX2015070494	Pro Oilfield Services, LLC	UN0494
EX2015070496	Pro Oilfield Services, LLC	UN0494
EX2015070497	Pro Oilfield Services, LLC	UN0494
EX2009020386	PSI Wireline, Inc.	UN0494
EX2009020387	PSI Wireline, Inc.	NA0494
EX2009020388	PSI Wireline, Inc.	UN0494
EX2009020389	PSI Wireline, Inc.	NA0494
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EX2009050383	PSI Wireline, Inc.	UN0494
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EX2009050385	PSI Wireline, Inc.	UN0494
EX2009020326	Pure Energy Services (USA)	UN0494
EX2009020327	Pure Energy Services (USA)	UN0124
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EX2009035003	Pure Energy Services (USA)	UN0124
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EX2009035006	Pure Energy Services (USA)	NA0494
EX2009035007	Pure Energy Services (USA)	UN0124
EX2009035308	Pure Energy Services (USA)	UN0494
EX2017010535	QES Wireline, LLC	UN0124
EX2012110221	Quality Energy Services	UN0494
EX2017062013	Reach Wireline, LLC	NA0124
EX2012120524	Recon Petrotechnologies Oklahoma Inc	UN0494
EX2015120059	Reliable Wireline, LLC	UN0124
EX2015120062	Reliable Wireline, LLC	UN0494
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EX2015120076	Reliable Wireline, LLC	UN0124
EX2015120077	Reliable Wireline, LLC	UN0494
EX2015120078	Reliable Wireline, LLC	NA0124
EX2015120079	Reliable Wireline, LLC	NA0494
EX2015100247	Reliance Pressure Control, LLC dba Reliance Oilfield Services	NA0494
EX2015100248	Reliance Pressure Control, LLC dba Reliance Oilfield Services	UN0494
EX2015100250	Reliance Pressure Control, LLC dba Reliance Oilfield Services	NA0494
EX2015100230	Reliance Pressure Control, LLC, dba Reliance Oilfield Services	UN0494
EX2015100235	Reliance Pressure Control, LLC, dba Reliance Oilfield Services	NA0494
EX2015100237	Reliance Pressure Control, LLC, dba Reliance Oilfield Services	UN0494
EX2013060448	RockPile Energy Services	UN0124
EX2013060616	RockPile Energy Services	UN0124

EX2013060619	RockPile Energy Services	UN0124
EX2013060620	RockPile Energy Services	UN0124
EX2013121301	RockPile Energy Services, LLC	UN0494
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EX2009090391	Rocky Mountain Wireline Service, Inc.	NA0124
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EX2009110302	Rocky Mountain Wireline Service, Inc.	UN0124
EX2009110303	Rocky Mountain Wireline Service, Inc.	UN0494
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EX2009110312	Rocky Mountain Wireline Service, Inc.	NA0124
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EX2009110314	Rocky Mountain Wireline Service, Inc.	UN0124
EX2009110315	Rocky Mountain Wireline Service, Inc.	UN0494
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EX2009110318	Rocky Mountain Wireline Service, Inc.	UN0494
EX2015070685	Rocky Mountain Wireline Service, Inc.	UN0494
EX2015070694	Rocky Mountain Wireline Service, Inc.	UN0124
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EX2016080198	Rush Wellsite Services LLC	UN0494
EX2016080199	Rush Wellsite Services LLC	NA0494
EX2016080200	Rush Wellsite Services LLC	UN0494
EX2016080201	Rush Wellsite Services LLC	NA0494
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EX2009080295	Schlumberger Technology Corporation	NA0124
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EX2012100367	Schlumberger Technology Corporation	UN0124
EX2013080458	Schlumberger Technology Corporation	NA0124
EX2013100334	Schlumberger Technology Corporation	UN0494
EX2013100335	Schlumberger Technology Corporation	UN0124
EX1994010168	Schlumberger Well Services	UN0124
EX1994010169	Schlumberger Well Services	NA0124
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EX1996060154	Shaped Charge Specialist, Inc.	UN0494
EX2010120187	Sharpshooters, Inc.	UN0494
EX2010120638	Sharpshooters, Inc.	UN0494
EX2010120639	Sharpshooters, Inc.	UN0494
EX2010120640	Sharpshooters, Inc.	UN0124
EX2010120641	Sharpshooters, Inc.	UN0124
EX2010010401	Smith International, Inc.	UN0494
EX2015020509	Southern Well Survey	UN0124
EX2011020588	Star-Jet Services, Inc.	UN0494
EX2011020590	Star-Jet Services, Inc.	UN0494
EX2011020591	Star-Jet Services, Inc.	UN0494
EX2011020592	Star-Jet Services, Inc.	UN0494
EX2011021392	Star-Jet Services, Inc.	UN0494
EX2014100604	Strategic Wireline Services LLC	UN0494
EX2014100605	Strategic Wireline Services LLC	UN0494
EX2014100606	Strategic Wireline Services LLC	UN0494
EX2014100607	Strategic Wireline Services LLC	UN0494
EX2009050039	Superior Well Services, Inc.	UN0124
EX2009050048	Superior Well Services, Inc.	NA0494
EX2014060299	Terragon Energy Services, LLC	UN0494
EX2014060310	Terragon Energy Services, LLC	UN0494
EX2014060298	Terragon Energy Services, LLC	UN0494
EX2010120189	Tetra Applied Technologies, LLC.	UN0494
EX2010120643	Tetra Applied Technologies, LLC.	UN0124
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EX2011110220	Titan Wireline Services	UN0494
EX2011110221	Titan Wireline Services	UN0494
EX2011110222	Titan Wireline Services	UN0494
EX1996110206	Titan Wireline Services c/o Owen Compliance Service	NA0124
EX1996110207	Titan Wireline Services c/o Owen Compliance Service	NA0494
EX2012080810	Tucker Energy Services Inc.	UN0494
EX2013090762	Tucker Energy Services Inc.	NA0494
EX2009060090	United Surveys Inc.	UN0494
EX2009060091	United Surveys Inc.	UN0494
EX2009060092	United Surveys Inc.	NA0494
EX2009060095	UNITED SURVEYS, INC.	UN0494
EX2009060098	UNITED SURVEYS, INC.	UN0494
EX2012051013	Warrior Energy Services	UN0494
EX2012051014	Warrior Energy Services	UN0494
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EX2012051018	Warrior Energy Services	UN0494
EX2012061117	Warrior Energy Services Corporation	NA0494
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EX2012061122	Warrior Energy Services Corporation	NA0494
EX2010090677	Weaver Services Inc., dba WSI Cased Hole Specialist	NA0124
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EX2010090694	Weaver Services Inc., dba WSI Cased Hole Specialist	NA0494
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EX2011020555	Well Service of Alabama LLC.	UN0494
EX2011020861	Well Service of Alabama LLC.	UN0494
EX2011020862	Well Service of Alabama LLC.	UN0494
EX2021042088	Wellmatics	NA0124
EX2009050094	Wireline Specialties, Inc.	UN0494
EX2009050095	Wireline Specialties, Inc.	UN0124
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EX2009050115	Wireline Specialties, Inc.	UN0124
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EX2009050117	Wireline Specialties, Inc.	NA0124
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EX2009050119	Wireline Specialties, Inc.	UN0124
EX2010091016	Wrangler Wireline, Inc.	UN0494
EX2011120468	Wren Oilfield Services, Inc.	UN0494
EX2011120502	Wren Oilfield Services, Inc.	UN0494
EX2011120504	Wren Oilfield Services, Inc.	UN0494
EX2011120506	Wren Oilfield Services, Inc.	UN0494
EX2012050234	Wren Oilfield Services, Inc.	UN0494

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